

What is Claimed is

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1. A plasmid carrying gag, protease, env and rev gene, all derived from SIV (Simian immunodeficiency virus), but not tat and nef gene.

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2. The plasmid according to the claim 1, which contains DNA construct of SIV/GE gene described in FIG. 1.

3. The plasmid according to the claim 1, which is pTV-SIV/GE described in FIG. 2 (Accession NO: KCTC 0702BP).

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4. A plasmid substituted SIV-derived genes which are contained in the plasmid of the claim 1, by HIV (Human immunodeficiency virus)-derived corresponding genes.

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5. A plasmid carrying a SIV-derived pol gene encoding for a reverse transcriptase and an integrase.

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6. The plasmid according to the claim 5, wherein the pol gene encodes the inactive integrase by modifying the important site for enzyme activity

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of integrase.

5 7. The plasmid according to the claim 6, wherein the important site for enzyme activity of integrase is the base at positions 5130-5135, the base at positions 5130-5132 is deleted, and the base at positions 5133-5135 is substituted by codon for serine.

10 8. The plasmid according to the claim 5, wherein the 5'-end of pol gene is fused to signal sequence of secretion protein.

15 9. The plasmid according to the claim 8, wherein the secretion protein is glycoprotein D (gD) of hepes simplex virus (HSV).

20 10. The plasmid according to the claim 5, which contains DNA construct of a SIV/pol gene described in FIG. 1.

11. The plasmid according to the claim 5, which is pTV-SIV/pol described in FIG. 2 (Accession NO: KCTC 0703BP).

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12. A plasmid substituted SIV-derived genes which are contained in the plasmid of the claim 5, by HIV-

derived corresponding genes.

5 ^{Sub A3} 13. DNA vaccine for AIDS prevention and therapy containing the plasmid of the claim 1 and the plasmid of the claim 5.

10 14. DNA vaccine for AIDS prevention and therapy containing the plasmid of the claim 4 and the plasmid of the claim 12.

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